STIC Search Report
Biotech-Chem Library

STIC Database Tracking Number: 178439

TO: Rei-Tsang Shiao **Location: REM-5A10/5C18** **Art Unit: 1626** **Thursday, February 16, 2006** **Case Serial Number: 10/757581**	**From: Alex Waclawiw** **Location: Biotech-Chem Library** **Rem 1A71** **Phone: 272-2534** **Alexandra.waclawiw@uspto.gov**

Search Notes

FOR OFFICIAL USE ONLY 178117

ACCESS DB # ________________

PLEASE PRINT CLEARLY

Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: Robert (Kerby) Shiao Examiner # : 79521 Date: 5/3/06

Art Unit: 1626 Phone Number: 2-0707 Serial Number: 10/757 581

Location (Bldg/Room#): REM (Mailbox #): 5A11 /5C15 Results Format Preferred (circle): PAPER DISK

****

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: Substituted (amino) naphthol [illegible]

Inventors (please provide full names): Gerlach et al

Earliest Priority Date: ____________

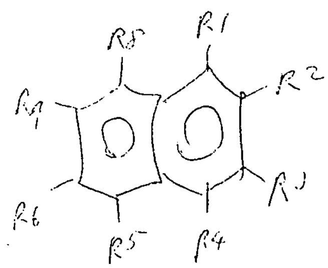
Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

For Sequence Searches Only *Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

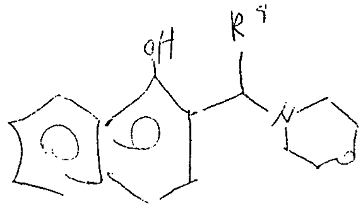
I. Search cpd I (see claim 14) & methods of use

* R1 ~ R8 are sub

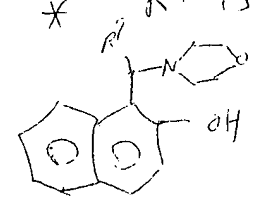


* R1 or R2 or [illegible] can be sub c̄ heteroaryl, or heterocycle, i.e. morpholine.

II search cpd II, III (see [illegible] 18)



* R9 is sub.



****

STAFF USE ONLY

Searcher: Point of Contact

Searcher Phone #: Alexandra Waclawiw Technical Info. Specialist

Searcher Location: [illegible]

Date Searcher Picked Up: 2-16

Date Completed: 2-16

Searcher Prep & Review Time: 23

Online Time: 42

Type of Search

_____ NA Sequence (#)

_____ AA Sequence (#)

(3) Structure (#)

_____ Bibliographic

_____ Litigation

_____ Fulltext

_____ Other

Vendors and cost where applicable [illegible]

363.00 STN

_____ Dialog

_____ Questel/Orbit

_____ Lexis/Nexis

_____ Westlaw

_____ WWW/Internet

_____ In-house sequence systems

_____ Commercial _____ Oligomer _____ Score/Length

_____ Interference _____ SPDI _____ Encode/Transl

_____ Other (specify)

```
=> d his ful

     (FILE 'REGISTRY' ENTERED AT 13:34:18 ON 16 FEB 2006)
                DEL HIS Y
                ACT ROBERTCL147/A
               ---------
L1              STR
L2   (       312)SEA SSS FUL L1
L3              STR
L4           230 SEA SUB=L2 SSS FUL L3
               ---------
                ACT ROBERTEX1718/A
               ---------
L5              STR
L6   (       312)SEA SSS FUL L5
L7              STR
L8   (       230)SEA SUB=L6 SSS FUL L7
L9              STR
L10           38 SEA SUB=L8 SSS FUL L9
              ---------

     FILE 'CAPLUS' ENTERED AT 13:34:51 ON 16 FEB 2006
L11           63 SEA ABB=ON  PLU=ON  L4
L12           16 SEA ABB=ON  PLU=ON  L10
                D SCAN TI


=> d que sta l4
L1              STR
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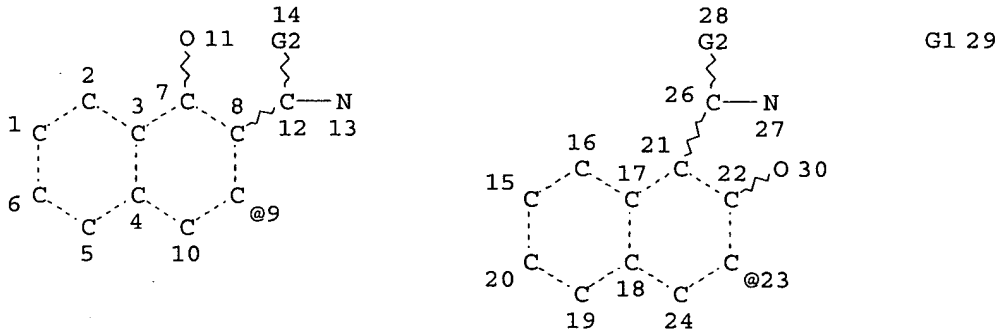


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VAR G1=9/23
VAR G2=CY/AK
NODE ATTRIBUTES:
NSPEC   IS RC     AT  13
NSPEC   IS RC     AT  27
CONNECT IS E3  RC AT  13
CONNECT IS E3  RC AT  27
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS  29

STEREO ATTRIBUTES: NONE
L2   (       312)SEA FILE=REGISTRY SSS FUL L1
L3              STR
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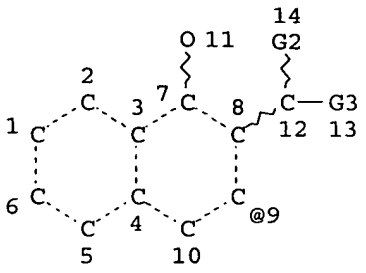
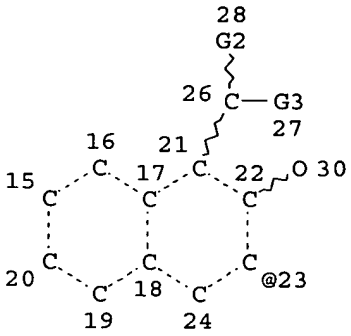


G1 29



Hy @34

Ak~N~Ak
35 @36 37

Cb~N~Cb
38 @39 40

Cb~N~Ak
41 @42 43

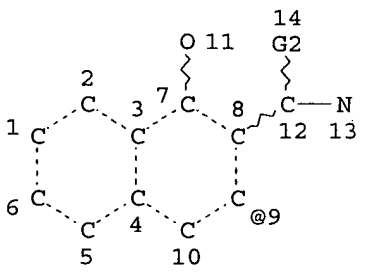
VAR G1=9/23
VAR G2=CY/AK
VAR G3=34/36/39/42
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
GGCAT IS MCY SAT AT 34
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS E1 N X1 O AT 34

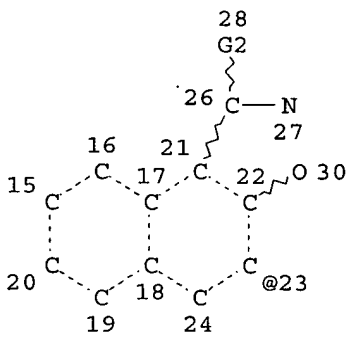
GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE
L4 230 SEA FILE=REGISTRY SUB=L2 SSS FUL L3

100.0% PROCESSED 312 ITERATIONS 230 ANSWERS
SEARCH TIME: 00.00.01

=> d que sta l10
L5 STR





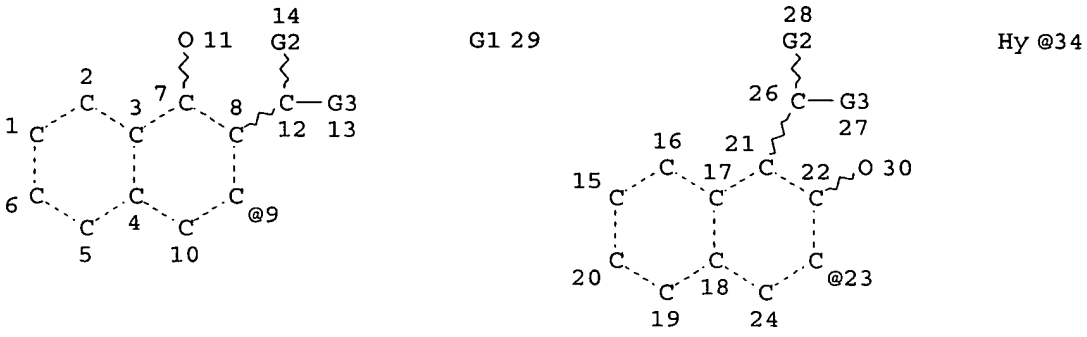
G1 29

VAR G1=9/23
VAR G2=CY/AK
NODE ATTRIBUTES:
NSPEC IS RC AT 13
NSPEC IS RC AT 27

CONNECT IS E3 RC AT 13
CONNECT IS E3 RC AT 27
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE
L6 (312) SEA FILE=REGISTRY SSS FUL L5
L7 STR



Ak~N~Ak
35 @36 37

Cb~N~Cb
38 @39 40

Cb~N~Ak
41 @42 43

VAR G1=9/23
VAR G2=CY/AK
VAR G3=34/36/39/42
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
GGCAT IS MCY SAT AT 34
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS E1 N X1 O AT 34

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE
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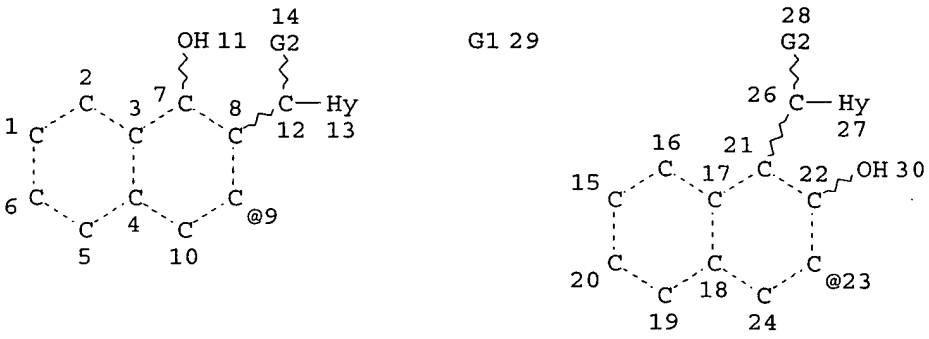
L9 STR



```
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VAR G2=CY/AK
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
GGCAT   IS MCY  SAT  AT  13
GGCAT   IS MCY  SAT  AT  27
DEFAULT ECLEVEL IS LIMITED
ECOUNT  IS E1 N  E1 O  AT  13
ECOUNT  IS E1 N  E1 O  AT  27

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS  29

STEREO ATTRIBUTES: NONE
L10          38 SEA FILE=REGISTRY SUB=L8 SSS FUL L9

100.0% PROCESSED     230 ITERATIONS                          38 ANSWERS
SEARCH TIME: 00.00.01


=> □

=> fil reg
FILE 'REGISTRY' ENTERED AT 13:37:37 ON 16 FEB 2006
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provided by InfoChem.

STRUCTURE FILE UPDATES:   14 FEB 2006  HIGHEST RN 874270-88-9
DICTIONARY FILE UPDATES:  14 FEB 2006  HIGHEST RN 874270-88-9

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

*********************************************************************
*                                                                   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                   *
*********************************************************************

Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:
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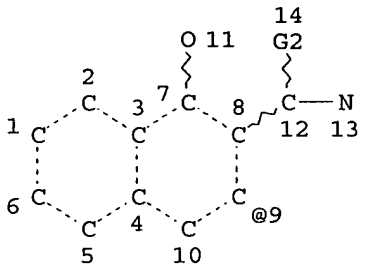
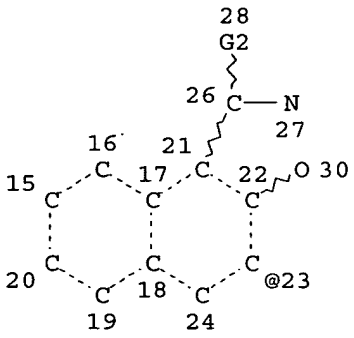
http://www.cas.org/ONLINE/UG/regprops.html

=> d que stat l4
L1 STR





VAR G1=9/23
VAR G2=CY/AK
NODE ATTRIBUTES:
NSPEC IS RC AT 13
NSPEC IS RC AT 27
CONNECT IS E3 RC AT 13
CONNECT IS E3 RC AT 27
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE
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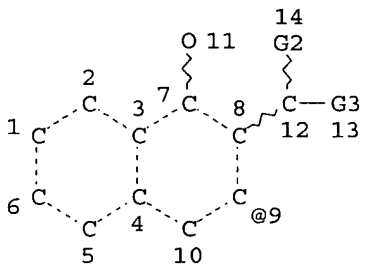
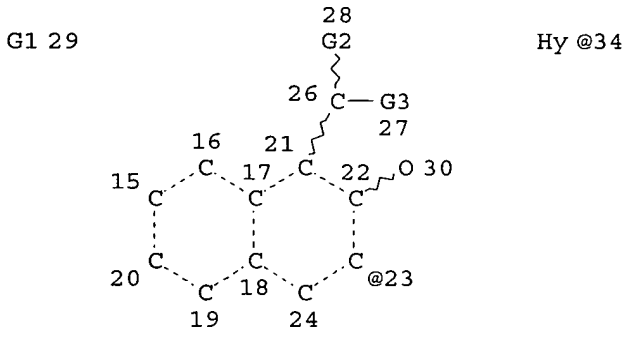
L3 STR





Ak~N~Ak	Cb~N~Cb	Cb~N~Ak
35 @36 37	38 @39 40	41 @42 43

VAR G1=9/23
VAR G2=CY/AK
VAR G3=34/36/39/42
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
GGCAT IS MCY SAT AT 34
DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E1 N X1 O AT 34

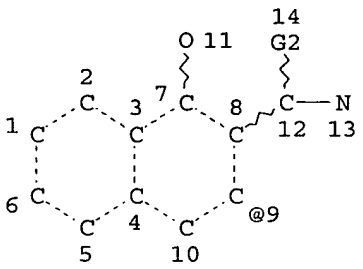
GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 39

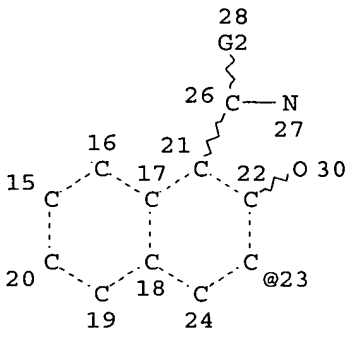
STEREO ATTRIBUTES: NONE
L4 230 SEA FILE=REGISTRY SUB=L2 SSS FUL L3

100.0% PROCESSED 312 ITERATIONS 230 ANSWERS
SEARCH TIME: 00.00.01

L> claim 147

=> d que stat l10
L5 STR

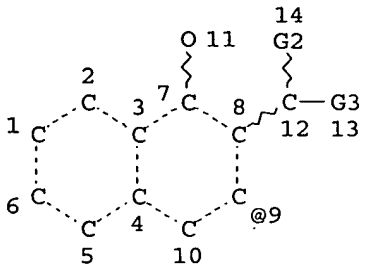




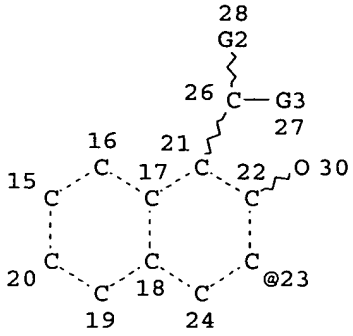
VAR G1=9/23
VAR G2=CY/AK
NODE ATTRIBUTES:
NSPEC IS RC AT 13
NSPEC IS RC AT 27
CONNECT IS E3 RC AT 13
CONNECT IS E3 RC AT 27
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE
L6 (312) SEA FILE=REGISTRY SSS FUL L5
L7 STR



G1 29



Hy @34

Ak~N~Ak
35 @36 37

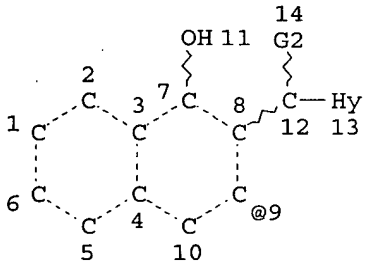
Cb~N~Cb
38 @39 40

Cb~N~Ak
41 @42 43

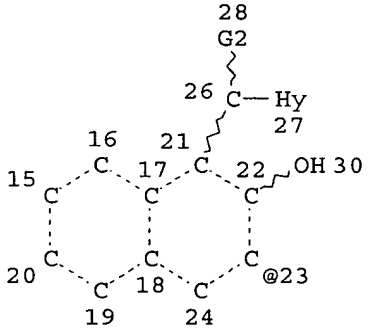
VAR G1=9/23
VAR G2=CY/AK
VAR G3=34/36/39/42
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
GGCAT IS MCY SAT AT 34
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS E1 N X1 O AT 34

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE
L8 (230) SEA FILE=REGISTRY SUB=L6 SSS FUL L7
L9 STR



G1 29



VAR G1=9/23
VAR G2=CY/AK
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
GGCAT IS MCY SAT AT 13
GGCAT IS MCY SAT AT 27
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS E1 N E1 O AT 13
ECOUNT IS E1 N E1 O AT 27

GRAPH ATTRIBUTES:

RSPEC I
NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE
L10 38 SEA FILE=REGISTRY SUB=L8 SSS FUL L9

100.0% PROCESSED 230 ITERATIONS 38 ANSWERS
SEARCH TIME: 00.00.01

example 17 & 18

=> fil caplus
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FILE COVERS 1907 - 16 Feb 2006 VOL 144 ISS 8
FILE LAST UPDATED: 15 Feb 2006 (20060215/ED)

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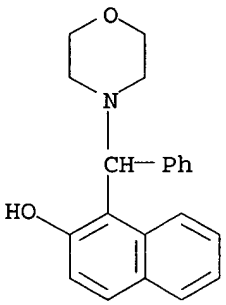
'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

=> d que nos l12
L5 STR
L6 (312) SEA FILE=REGISTRY SSS FUL L5
L7 STR
L8 (230) SEA FILE=REGISTRY SUB=L6 SSS FUL L7
L9 STR
L10 38 SEA FILE=REGISTRY SUB=L8 SSS FUL L9
L12 16 SEA FILE=CAPLUS ABB=ON PLU=ON L10

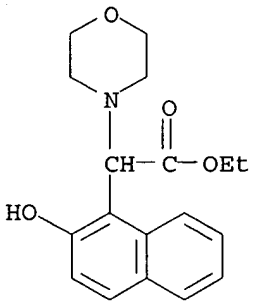
=> d .ca hitstr l12 1-16

L12 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:19736 CAPLUS
DOCUMENT NUMBER: 136:200000
TITLE: A Modified Mannich-Type Reaction Catalyzed by VO(acac)2
AUTHOR(S): Hwang, Der-Ren; Uang, Biing-Jiun
CORPORATE SOURCE: Department of Chemistry, National Tsing Hua University, Hsinchu, 300, Taiwan
SOURCE: Organic Letters (2002), 4(3), 463-466
CODEN: ORLEF7; ISSN: 1523-7060
PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:200000
ED Entered STN: 09 Jan 2002
AB A facile VO(acac)2-catalyzed in situ generation of iminium ions from amine N-oxides and their participation in a modified Mannich-type reaction is described.
CC 25-24 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
IT 120-65-0P 2121-66-6P 4438-01-1P 4727-98-4P 5419-02-3P
14074-21-6P 19045-23-9P **24685-08-3P** 27438-39-7P
60460-70-0P 63221-02-3P 87177-56-8P 122591-11-1P
230302-55-3P 401632-93-7P 401632-97-1P 401632-98-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(modified Mannich-type reaction catalyzed by VO(acac)2)
IT **24685-08-3P 230302-55-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(modified Mannich-type reaction catalyzed by VO(acac)2)
RN 24685-08-3 CAPLUS
CN 2-Naphthalenol, 1-(4-morpholinylphenylmethyl)- (9CI) (CA INDEX NAME)



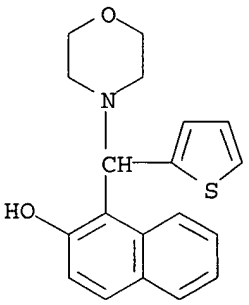
RN 230302-55-3 CAPLUS
CN 4-Morpholineacetic acid, α-(2-hydroxy-1-naphthalenyl)-, ethyl ester (9CI) (CA INDEX NAME)



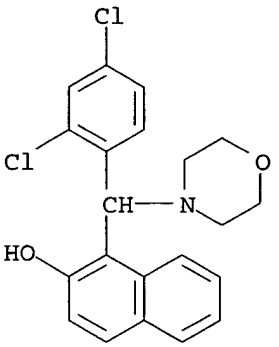
REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:779971 CAPLUS
DOCUMENT NUMBER: 136:216298
TITLE: Lithium perchlorate assisted one-pot three-component aminoalkylation of electron-rich aromatic compounds

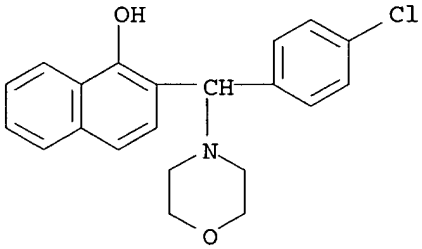
AUTHOR(S): Saidi, Mohammad R.; Azizi, Najmoddin; Naimi-Jamal, M. Reza
CORPORATE SOURCE: Department of Chemistry, Sharif University of Technology, Tehran, Iran
SOURCE: Tetrahedron Letters (2001), 42(45), 8111-8113
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:216298
ED Entered STN: 26 Oct 2001
AB A one-pot, three-component, Mannich reaction of electron-rich aromatic compds. with in situ prepared iminium salts in 5 M ethereal LiClO4 gives good yields of aminoalkylated products at room temperature
CC 21-2 (General Organic Chemistry)
IT 6278-04-2P **24685-04-9P** 39487-54-2P 59836-46-3P
180463-79-0P 402618-23-9P 402618-24-0P 402618-25-1P 402618-26-2P
402618-27-3P 402618-28-4P 402618-29-5P 402618-30-8P
402618-31-9P 402618-32-0P **402618-33-1P** 402618-34-2P
402618-35-3P 402618-36-4P 402618-37-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(three-component aminoalkylation of aldehydes and trimethylsilyldialkylamines and hydroxyarenes using lithium perchlorate catalyst)
IT **24685-04-9P 402618-27-3P 402618-31-9P**
402618-33-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(three-component aminoalkylation of aldehydes and trimethylsilyldialkylamines and hydroxyarenes using lithium perchlorate catalyst)
RN 24685-04-9 CAPLUS
CN 2-Naphthalenol, 1-(4-morpholinyl-2-thienylmethyl)- (9CI) (CA INDEX NAME)



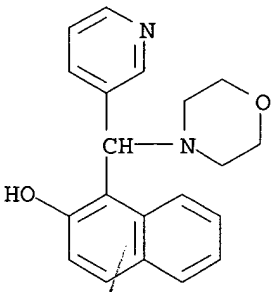
RN 402618-27-3 CAPLUS
CN 2-Naphthalenol, 1-[(2,4-dichlorophenyl)-4-morpholinylmethyl]- (9CI) (CA INDEX NAME)



RN 402618-31-9 CAPLUS
CN 1-Naphthalenol, 2-[(4-chlorophenyl)-4-morpholinylmethyl]- (9CI) (CA INDEX NAME)



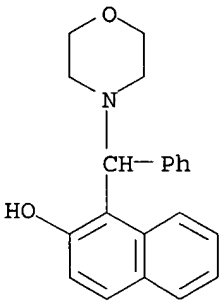
RN 402618-33-1 CAPLUS
CN 2-Naphthalenol, 1-(4-morpholinyl-3-pyridinylmethyl)- (9CI) (CA INDEX NAME)



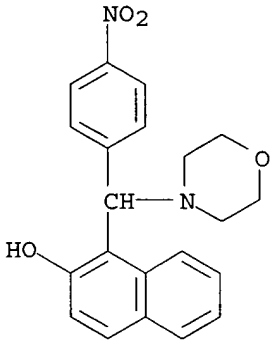
REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:660405 CAPLUS
DOCUMENT NUMBER: 135:371592
TITLE: Solvent-free aminoalkylation of phenols and indoles assisted by microwave irradiation
AUTHOR(S): Sharifi, Ali; Mirzaei, Mojtaba; Naimi-Jamal, M. Reza
CORPORATE SOURCE: Chemistry and Chemical Engineering Research Center of Iran, Tehran, Iran
SOURCE: Monatshefte fuer Chemie (2001), 132(7), 875-880

CODEN: MOCMB7; ISSN: 0026-9247
PUBLISHER: Springer-Verlag Wien
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:371592
ED Entered STN: 10 Sep 2001
AB Phenols and indoles were aminoalkylated in a solvent-free and environmentally friendly Mannich reaction on acidic alumina assisted by microwave irradiation in good overall yields.
CC 27-11 (Heterocyclic Compounds (One Hetero Atom))
Section cross-reference(s): 25
IT 6278-04-2P 16087-95-9P **24685-08-3P** 46397-90-4P 59614-91-4P 83236-39-9P 180597-78-8P 180597-81-3P **244184-48-3P** 374690-61-6P 439927-23-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(solvent-free aminoalkylation of phenols and indoles assisted by microwave irradiation)
IT **24685-08-3P 244184-48-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(solvent-free aminoalkylation of phenols and indoles assisted by microwave irradiation)
RN 24685-08-3 CAPLUS
CN 2-Naphthalenol, 1-(4-morpholinylphenylmethyl)- (9CI) (CA INDEX NAME)



RN 244184-48-3 CAPLUS
CN 2-Naphthalenol, 1-[4-morpholinyl(4-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)



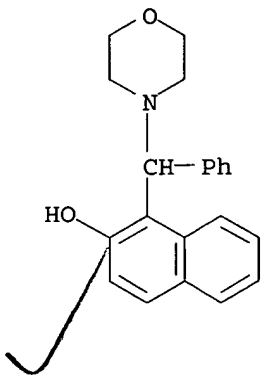
REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:489366 CAPLUS
DOCUMENT NUMBER: 135:92541
TITLE: Preparation of a substance library from iminium salts and naphthalene, pyrrole, and/or indole compounds and use of the library in discovery of active compounds.
INVENTOR(S): Gerlach, Matthias; Maul, Corinna
PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany
SOURCE: PCT Int. Appl., 80 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001047882	A2	20010705	WO 2000-EP12973	20001220
WO 2001047882	A3	20020530		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19963177	A1	20010712	DE 1999-19963177	19991227

PRIORITY APPLN. INFO.: DE 1999-19963177 A 19991227
OTHER SOURCE(S): MARPAT 135:92541
ED Entered STN: 06 Jul 2001
AB A substance library was prepared by (1) reaction of aldehydes with secondary amines in the presence of base to give aminals, (2) treatment of the aminals with acid chlorides to give iminium salts, (3) reaction of the iminium salts with naphthalene, pyrrole, or indole compds. Thus, reaction of 1H-indole with benzylidenedimethylammonium chloride gave [(1H-indol-3-yl)phenylmethyl]dimethylamine. The latter gave 41% inhibition of phenylquinone-induced writhing in mice.
IC ICM C07D209-00
CC 27-11 (Heterocyclic Compounds (One Hetero Atom))
Section cross-reference(s): 1, 21, 63
IT 6278-04-2P **24685-08-3P** 59836-46-3P 76364-51-7P
180463-79-0P 180463-80-3P 180463-84-7P 347860-18-8P 347860-19-9P
347860-21-3P 347860-23-5P 347896-97-3P 347896-98-4P 348136-83-4P
348137-04-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of a substance library from iminium salts and naphthalene, pyrrole, and/or indole compds. and use of the library in discovery of active compds)
IT **24685-08-3P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of a substance library from iminium salts and naphthalene, pyrrole, and/or indole compds. and use of the library in discovery of active compds)
RN 24685-08-3 CAPLUS

CN 2-Naphthalenol, 1-(4-morpholinylphenylmethyl)- (9CI) (CA INDEX NAME)

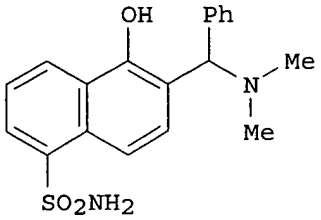


L12 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:489352 CAPLUS
DOCUMENT NUMBER: 135:76698
TITLE: Preparation of α-aminobenzylnaphthols and analogs as analgesics
INVENTOR(S): Gerlach, Matthias; Maul, Corinna
PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany
SOURCE: PCT Int. Appl., 94 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001047866	A1	20010705	WO 2000-EP12972	20001220
WO 2001047866	C2	20021107		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19963179	A1	20010712	DE 1999-19963179	19991227
CA 2394098	AA	20010705	CA 2000-2394098	20001220
BR 2000016781	A	20020827	BR 2000-16781	20001220
EP 1246790	A1	20021009	EP 2000-990799	20001220
EP 1246790	B1	20050504		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003519115	T2	20030617	JP 2001-549340	20001220
NZ 519976	A	20040430	NZ 2000-519976	20001220
AU 775709	B2	20040812	AU 2001-30147	20001220
AT 294773	E	20050515	AT 2000-990799	20001220
PT 1246790	T	20050930	PT 2000-990799	20001220
ES 2241688	T3	20051101	ES 2000-990799	20001220
ZA 2002004289	A	20040210	ZA 2002-4289	20020529
NO 2002002896	A	20020617	NO 2002-2896	20020617
US 2004044061	A1	20040304	US 2002-149449	20020627
US 6774136	B2	20040810		

HK 1051845	A1	20060113	HK 2003-102524		20030409
US 2004147570	A1	20040729	US 2004-757581		20040115
PRIORITY APPLN. INFO.:			DE 1999-19963179	A	19991227
			WO 2000-EP12972	W	20001220
			US 2002-149449	A3	20020627

OTHER SOURCE(S): MARPAT 135:76698
ED Entered STN: 06 Jul 2001
GI



II

AB R12OZCHR9NR10R11 [I; R9 = alkyl, (hetero)aryl, etc.; R10,R11 = (un)substituted alk(en)yl, -Ph, -CH2Ph, etc.; R12 = (un)substituted 1,2- or 2,1-naphthylene] were prepared Thus, PhCHO was condensed with Me2NH and the product used to alkylate 5-hydroxy-1-naphthalenesulfonamide to give title compound II. Data for biol. activity of I were given.

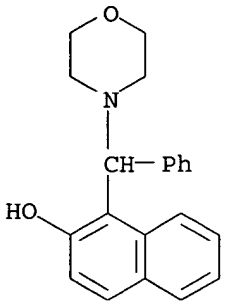
IC ICM C07C215-50
ICS C07C217-58; A61K031-136; A61K031-16; A61K031-165; A61K031-195; C07D295-08; C07C219-28; C07C225-16; C07C229-38; C07C237-48; C07C243-38; C07C311-37; C07D295-12; C07D295-14; A61P025-04; A61P029-00

CC 25-24 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 1

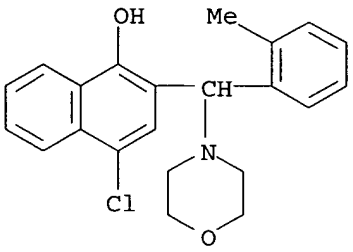
IT 6278-04-2P **24685-08-3P** 347859-82-9P 347859-83-0P
347859-84-1P 347859-85-2P 347859-86-3P 347859-87-4P 347859-88-5P
347859-89-6P 347859-90-9P 347859-91-0P 347859-92-1P 347859-93-2P
347859-94-3P 347859-95-4P 347859-96-5P 347859-97-6P 347859-98-7P
347859-99-8P 347860-00-8P 347860-01-9P **347860-02-0P**
347860-03-1P **347860-04-2P** 347860-05-3P 347860-06-4P
347860-07-5P 347860-08-6P **347860-09-7P 347860-10-0P**
347860-11-1P 347860-12-2P 347860-13-3P 347860-14-4P
347860-15-5P 347860-16-6P 347860-17-7P 347860-18-8P 347860-19-9P
347860-21-3P 347860-23-5P 347860-25-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of α-aminobenzylnaphthols and analogs as analgesics)

IT **24685-08-3P 347859-99-8P 347860-02-0P**
347860-04-2P 347860-09-7P 347860-10-0P
347860-11-1P 347860-12-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of α-aminobenzylnaphthols and analogs as analgesics)

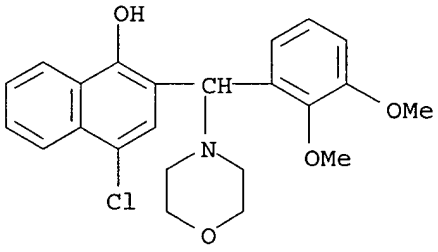
RN 24685-08-3 CAPLUS
CN 2-Naphthalenol, 1-(4-morpholinylphenylmethyl)- (9CI) (CA INDEX NAME)



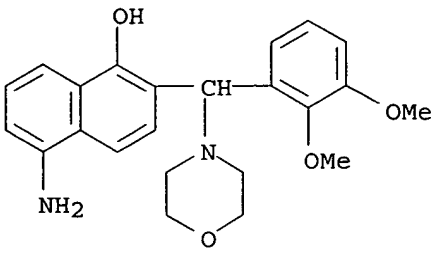
RN 347859-99-8 CAPLUS
CN 1-Naphthalenol, 4-chloro-2-[(2-methylphenyl)-4-morpholinylmethyl]- (9CI) (CA INDEX NAME)



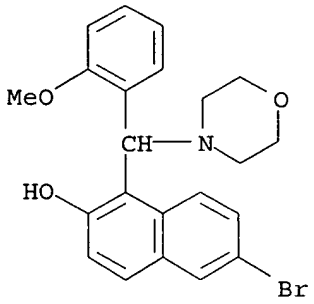
RN 347860-02-0 CAPLUS
CN 1-Naphthalenol, 4-chloro-2-[(2,3-dimethoxyphenyl)-4-morpholinylmethyl]- (9CI) (CA INDEX NAME)



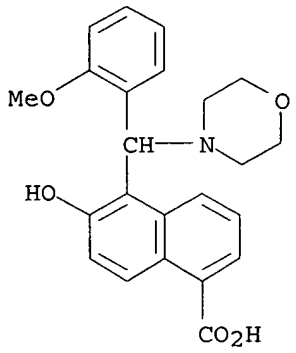
RN 347860-04-2 CAPLUS
CN 1-Naphthalenol, 5-amino-2-[(2,3-dimethoxyphenyl)-4-morpholinylmethyl]- (9CI) (CA INDEX NAME)



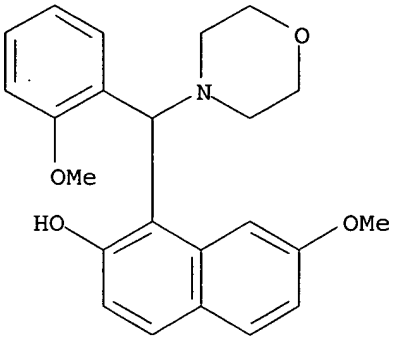
RN 347860-09-7 CAPLUS
CN 2-Naphthalenol, 6-bromo-1-[(2-methoxyphenyl)-4-morpholinylmethyl]- (9CI) (CA INDEX NAME)



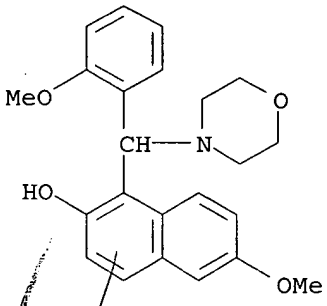
RN 347860-10-0 CAPLUS
CN 1-Naphthalenecarboxylic acid, 6-hydroxy-5-[(2-methoxyphenyl)-4-morpholinylmethyl]- (9CI) (CA INDEX NAME)



RN 347860-11-1 CAPLUS
CN 2-Naphthalenol, 7-methoxy-1-[(2-methoxyphenyl)-4-morpholinylmethyl]- (9CI) (CA INDEX NAME)



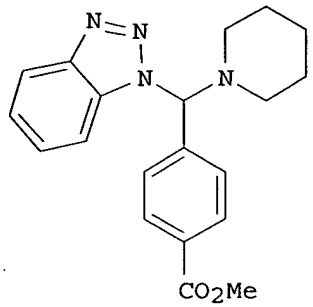
RN 347860-12-2 CAPLUS
CN 2-Naphthalenol, 6-methoxy-1-[(2-methoxyphenyl)-4-morpholinylmethyl]- (9CI) (CA INDEX NAME)



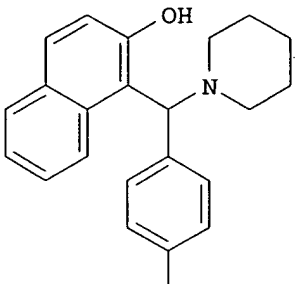
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:436700 CAPLUS
DOCUMENT NUMBER: 131:243022
TITLE: Amino(hetero)arylmethylation of phenols with N-[α-amino(hetero)arylmethyl]benzotriazoles
AUTHOR(S): Katritzky, Alan R.; Abdel-Fattah, Ashraf A. A.; Tymoshenko, Dmytro O.; Belyakov, Sergei A.; Ghiviriga, Ion; Steel, Peter J.
CORPORATE SOURCE: Center for Heterocyclic Compounds Department of Chemistry, University of Florida, Gainesville, FL, 32611-7200, USA
SOURCE: Journal of Organic Chemistry (1999), 64(16), 6071-6075
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 131:243022
ED Entered STN: 16 Jul 1999
GI

OD 741, 16



I



II

AB N-[α-Amino(hetero)arylmethyl]benzotriazoles derived from a variety of (hetero)aromatic aldehydes were reacted with sodium phenolates to afford amino(hetero)arylmethylated phenols in high yields. Thus, the benzotriazolylbenzoate I was prepared by condensation of benzotriazole, 4-(HCO)C6H4CO2Me, and piperidine; reaction of I with β-naphthol sodium salt in refluxing toluene containing a phase-transfer catalyst, dibenzo-18-crown-6, gave 82% [(methoxycarbonyl)benzyl]naphthol II.

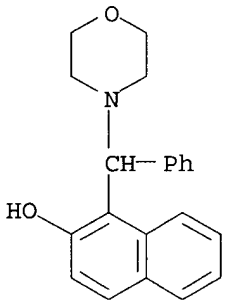
CC 25-10 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

IT 6278-04-2P **24685-08-3P** 55075-21-3P 244184-35-8P
244184-36-9P 244184-37-0P 244184-38-1P 244184-39-2P 244184-40-5P
244184-41-6P 244184-42-7P 244184-43-8P 244184-44-9P 244184-45-0P
244184-46-1P 244184-47-2P **244184-48-3P** 244184-49-4P
244184-50-7P 244184-51-8P 244184-52-9P 244184-53-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of (aminobenzyl)phenols and (aminohetarylmethyl)phenols by condensation of phenols with (aminobenzyl)benzotriazoles and (aminohetarylmethyl)benzotriazoles)

IT **24685-08-3P 244184-48-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of (aminobenzyl)phenols and (aminohetarylmethyl)phenols by condensation of phenols with (aminobenzyl)benzotriazoles and (aminohetarylmethyl)benzotriazoles)

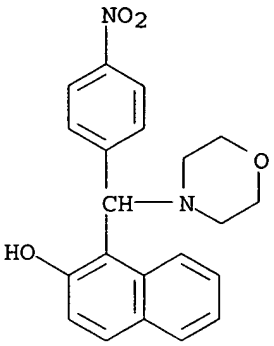
RN 24685-08-3 CAPLUS

CN 2-Naphthalenol, 1-(4-morpholinylphenylmethyl)- (9CI) (CA INDEX NAME)



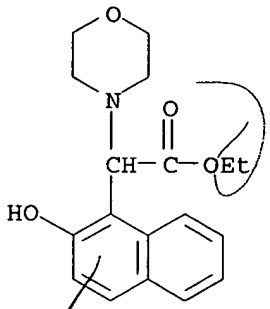
RN 244184-48-3 CAPLUS

CN 2-Naphthalenol, 1-[4-morpholinyl(4-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

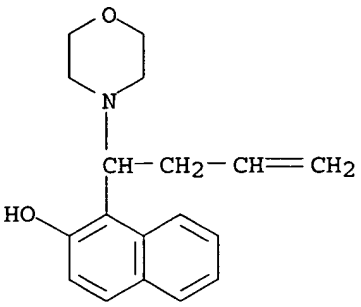
L12 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:376721 CAPLUS
DOCUMENT NUMBER: 131:88163
TITLE: Efficient synthesis of racemic α-aryl α-amino acid esters via aminoalkylation with in situ generated glycine cation equivalents
AUTHOR(S): Grumbach, Hans-Joachim; Merla, Beatrix; Risch, Nikolaus
CORPORATE SOURCE: Fachbereich Chemie Chemietechnik, Univ.-GH Paderborn, Paderborn, D-33098, Germany
SOURCE: Synthesis (1999), (6), 1027-1033
CODEN: SYNTBF; ISSN: 0039-7881
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 131:88163
ED Entered STN: 17 Jun 1999
AB Iminium salts generated in situ from glyoxylate, secondary amines, and 1-H-benzotriazole are excellent reagents for the regioselective mono-aminoalkylation of indoles, phenols, furans, and pyrroles. This method provides a simple and straightforward 1-pot reaction sequence to a variety of α-aryl α-amino acid esters in high yields.
CC 34-2 (Amino Acids, Peptides, and Proteins)
IT 230302-46-2P 230302-47-3P 230302-48-4P 230302-49-5P 230302-50-8P
230302-51-9P 230302-52-0P 230302-53-1P 230302-54-2P
230302-55-3P 230302-56-4P 230302-57-5P 230302-58-6P
230302-59-7P 230302-60-0P 230302-61-1P 230302-64-4P 230302-65-5P
230302-66-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of aryl α-amino acid esters via aminoalkylation with glycine cation equivalent)
IT **230302-55-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of aryl α-amino acid esters via aminoalkylation with glycine cation equivalent)
RN 230302-55-3 CAPLUS
CN 4-Morpholineacetic acid, α-(2-hydroxy-1-naphthalenyl)-, ethyl ester (9CI) (CA INDEX NAME)



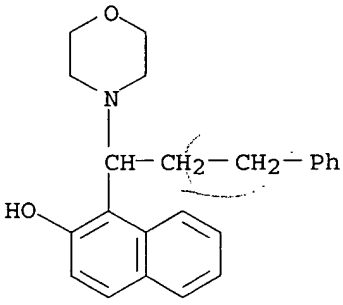
allyl ogf hdryl .

REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

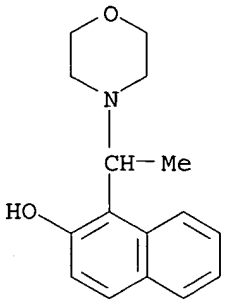
L12 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1997:698228 CAPLUS
DOCUMENT NUMBER: 128:13099
TITLE: A tandem aminoalkylation of aldehydes; application to the synthesis of substituted phenols and naphthols
AUTHOR(S): Saidi, Mohammad; Khalaji, Hamid R.
CORPORATE SOURCE: Dep. Chem., Sharif Univ. Technol., Tehran, 11365-9516, Iran
SOURCE: Journal of Chemical Research, Synopses (1997), (9), 340-341
CODEN: JRPSDC; ISSN: 0308-2342
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 128:13099
ED Entered STN: 06 Nov 1997
AB Treatment of a protected salicylaldehyde and 2-hydroxy-1-naphthaldehyde with (trimethylsilyl)dialkylamines and various nucleophiles in a 5 M di-Et ether solution of lithium perchlorate gives a variety of N,N-dialkylaminophenols and 1-(N,N-dialkylamino)-2-naphthols in short reaction times and in good yields.
CC 25-10 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
IT 198986-90-2P 198986-91-3P 198986-92-4P 198986-93-5P 198986-94-6P
198986-95-7P 198986-96-8P 198986-97-9P 198986-98-0P 198986-99-1P
198987-00-7P 198987-01-8P 198987-03-0P **198987-05-2P**
198987-07-4P **198987-08-5P** 198987-09-6P **198987-10-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
IT **198987-05-2P 198987-08-5P 198987-10-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 198987-05-2 CAPLUS
CN 2-Naphthalenol, 1-[1-(4-morpholinyl)-3-butenyl]- (9CI) (CA INDEX NAME)



RN 198987-08-5 CAPLUS
CN 2-Naphthalenol, 1-[1-(4-morpholinyl)-3-phenylpropyl]- (9CI) (CA INDEX NAME)



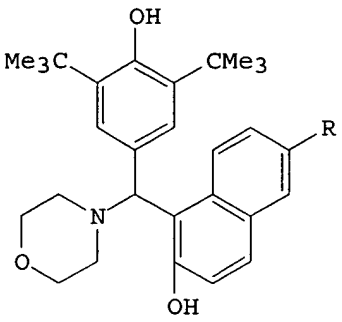
RN 198987-10-9 CAPLUS
CN 2-Naphthalenol, 1-[1-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



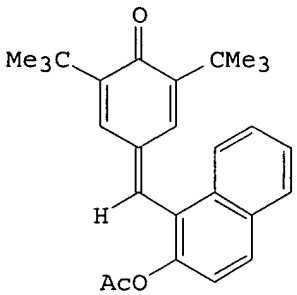
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1993:254274 CAPLUS
DOCUMENT NUMBER: 118:254274
TITLE: Photo- and thermochromic Mannich bases. 1. Mannich bases from 3,5-di-tert-butyl-4-hydroxybenzaldehyde and 2-naphthols
AUTHOR(S): Komissarov, V. N.; Ukhin, L. Yu.; Kharlanov, V. A.; Lokshin, V. A.; Bulgarevich, E. Yu.; Minkin, V. I.;

Filipenko, O. S.; Novozhilova, M. A.; Aldoshin, S. M.; Atovmyan, L. O.
CORPORATE SOURCE: Inst. Chem. Phys., Chernogolovka, 142432, Russia
SOURCE: Izvestiya Akademi Nauk, Seriya Khimicheskaya (1992), (10), 2389-99
CODEN: IASKEA; ISSN: 1026-3500
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 118:254274
ED Entered STN: 26 Jun 1993
GI



I



II

AB Mannich bases I (R = H, Br) synthesized from 3,5-di-tert-butyl-4-hydroxybenzaldehyde and 2-naphthols are photo- and thermochromic in solns. The study of acetyl derivative (II) of methylenequinone modeling the product of photo- and thermochromic conversions proved that the color changes of solns. of Mannich bases is due to the reversible dissociation into colored methylenequinones and morpholine. Mol. structure and dissociation mechanism are discussed in terms of x-ray crystallog. anal. of I (R = H).

CC 22-9 (Physical Organic Chemistry)
Section cross-reference(s): 74, 75

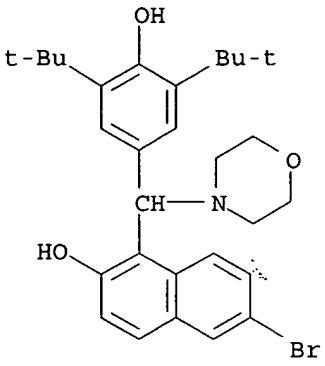
IT **147711-20-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and photo- and thermochromism of)

IT **147711-19-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, photo- and thermochromism, and crystal and mol. structure of)

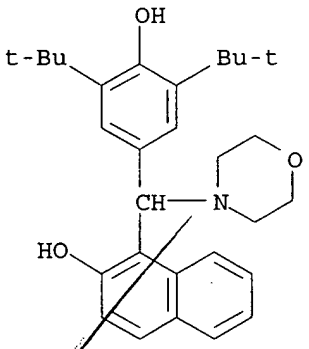
IT **147711-20-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and photo- and thermochromism of)

RN 147711-20-4 CAPLUS

CN 2-Naphthalenol, 1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-4-morpholinylmethyl]-6-bromo- (9CI) (CA INDEX NAME)

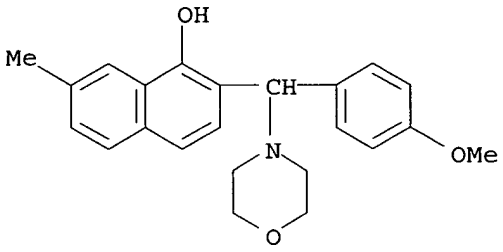


IT **147711-19-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, photo- and thermochromism, and crystal and mol. structure of)
RN 147711-19-1 CAPLUS
CN 2-Naphthalenol, 1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-4-morpholinylmethyl]- (9CI) (CA INDEX NAME)

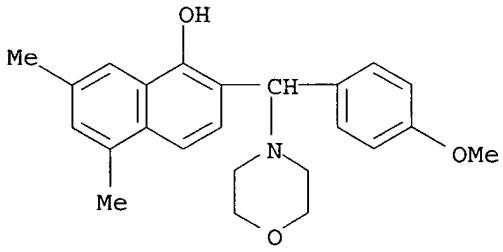


L12 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1974:108438 CAPLUS
DOCUMENT NUMBER: 80:108438
TITLE: Synthesis of Δ2-pyrazolines and 1-naphthols
AUTHOR(S): Fateen, Abdel K.; Ali, Morsy M.
CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
SOURCE: Egyptian Journal of Chemistry (1972), 15(4), 329-36
CODEN: EGJCA3; ISSN: 0449-2285
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
GI For diagram(s), see printed CA Issue.
AB The naphthopyrazolines I (R = Ph, p-MeOC6H4; R1 = H, Me; R2 = Me, Ph; R3 = Ac, Ph) were prepared by reaction of the tetralones II with PhNHNH2 or H2NNH2 in HOAc. The naphthols III (R = Ph, p-MeOC6H4; R1 = H, Me; R2 = morpholino, piperidino) were prepared by bromination of II followed by reaction with amines.
CC 28-9 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 27
IT 52159-73-6P 52159-74-7P 52159-75-8P 52159-76-9P 52159-77-0P
52159-78-1P 52159-79-2P 52159-80-5P 52159-81-6P 52159-82-7P

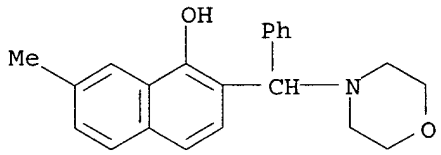
52159-83-8P 52159-84-9P 52159-85-0P **52159-86-1P**
52159-87-2P 52213-71-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
IT **52159-83-8P 52159-86-1P 52159-87-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 52159-83-8 CAPLUS
CN 1-Naphthalenol, 2-[(4-methoxyphenyl)-4-morpholinylmethyl]-7-methyl- (9CI) (CA INDEX NAME)



RN 52159-86-1 CAPLUS
CN 1-Naphthalenol, 2-[(4-methoxyphenyl)-4-morpholinylmethyl]-5,7-dimethyl- (9CI) (CA INDEX NAME)

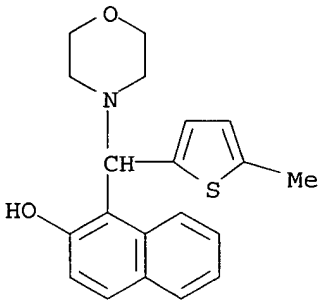


RN 52159-87-2 CAPLUS
CN 1-Naphthalenol, 7-methyl-2-(4-morpholinylphenylmethyl)- (9CI) (CA INDEX NAME)

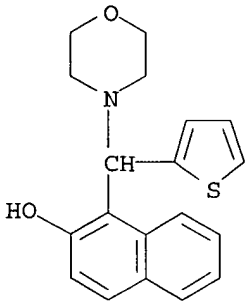


L12 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1970:31500 CAPLUS
DOCUMENT NUMBER: 72:31500
TITLE: Synthesis of 2,3-arenophenalenium cations. A new synthetic use for Mannich bases
AUTHOR(S): Seshadri, S.; Cherian, A. L.; Pandit, P. Y.
CORPORATE SOURCE: Dep. Chem. Technol., Univ. Bombay, Bombay, India

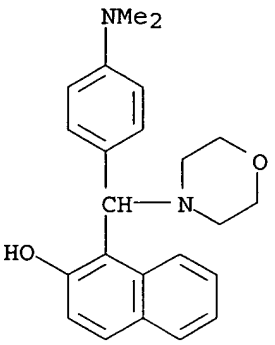
SOURCE: Indian Journal of Chemistry (1969), 7(11), 1080-3
CODEN: IJOCAP; ISSN: 0019-5103
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
GI For diagram(s), see printed CA Issue.
AB A synthesis of 2,3-arenophenalenium perchlorates (e.g. I), based on a n ovel reaction of Mannich bases derived from β-naphthol by condensation with an aromatic aldehyde and morpholine, is given. The O-Me derivs. of the Mannich bases are subjected to a cyclo-dehydrogenation reaction to give the desired phenalenium derivs. in good yields. The absorption spectra of the new compds. are discussed.
CC 26 (Condensed Aromatic Compounds)
IT 24684-93-3P 24684-94-4P 24684-95-5P 24684-96-6P 24684-97-7P
24684-98-8P 24684-99-9P 24685-00-5P 24685-01-6P 24685-02-7P
24685-03-8P 24685-04-9P 24685-05-0P
24685-06-1P 24685-07-2P 24685-08-3P
24736-35-4P **24736-36-5P** 27130-72-9P 27130-73-0P
27130-74-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
IT **24685-03-8P 24685-04-9P 24685-05-0P**
24685-06-1P 24685-07-2P 24685-08-3P
24736-36-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 24685-03-8 CAPLUS
CN 2-Naphthol, 1-(5-methyl-α-morpholino-2-thenyl)- (8CI) (CA INDEX NAME)



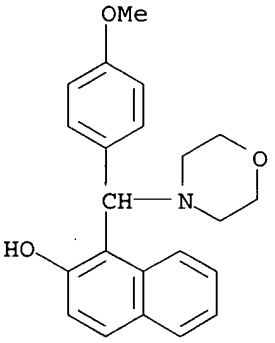
RN 24685-04-9 CAPLUS
CN 2-Naphthalenol, 1-(4-morpholinyl-2-thienylmethyl)- (9CI) (CA INDEX NAME)



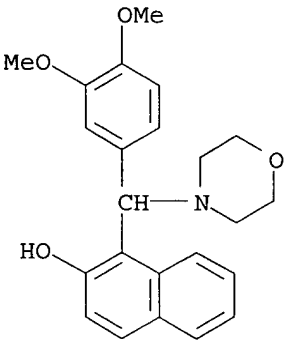
RN 24685-05-0 CAPLUS
CN 2-Naphthol, 1-[p-(dimethylamino)-α-morpholinobenzyl]- (8CI) (CA INDEX NAME)



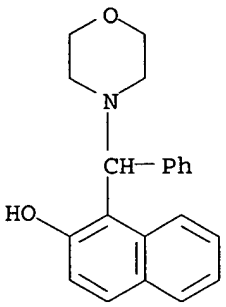
RN 24685-06-1 CAPLUS
CN 2-Naphthol, 1-(p-methoxy-α-morpholinobenzyl)- (8CI) (CA INDEX NAME)



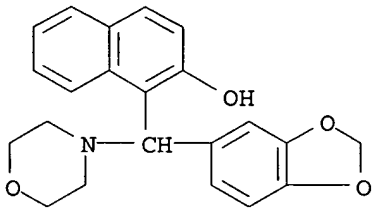
RN 24685-07-2 CAPLUS
CN 2-Naphthol, 1-(α-morpholinoveratryl)- (8CI) (CA INDEX NAME)



RN 24685-08-3 CAPLUS
CN 2-Naphthalenol, 1-(4-morpholinylphenylmethyl)- (9CI) (CA INDEX NAME)



RN 24736-36-5 CAPLUS
CN 2-Naphthol, 1-(α-morpholinopiperonyl)- (8CI) (CA INDEX NAME)



L12 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1964:52739 CAPLUS
DOCUMENT NUMBER: 60:52739
ORIGINAL REFERENCE NO.: 60:9273a-e
TITLE: The chemistry of glyoxylic acid. II. Mannich condensations with glyoxylic acid
AUTHOR(S): Biekert, Ernst; Funck, Theodor
CORPORATE SOURCE: Max-Planck-Inst. Biochem., Munich, Germany
SOURCE: Ber. (1964), 97(2), 363-71
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 60:52739
ED Entered STN: 22 Apr 2001
GI For diagram(s), see printed CA Issue.
AB cf. CA 54, 15390b. Condensation of OHCCO2H with antipyrine (I) and secondary amines in dioxane yielded the corresponding crystalline dl-antipyryl(dialkylamino)acetic acids. Antipyryl(dibenzylamino)acetic acid (II) was debenzylated to dl-antipyrylglycine (III). Mannich condensation of OHCCO2H yielding, in general, N,N-dialkyl-α-amino acids was extended to other CH-active components. OHCCO2Na (IV) and 2N H2SO4-Et2O in dry dioxane stirred 1 hr. and treated successively with morpholine (V) in dioxane and I in dioxane yielded 61% antipyryl(morpholino)acetic acid. Similarly was prepared 81% antipyryl(piperidino)acetic acid, m. 145-8° (decomposition), and II.H2O, decompose 195° (CHCl3-petr. ether) [picrate m. 153° (decomposition) (10:7 CHCl3-EtOH)]. II in MeOH hydrogenated over 17% Pd-C yielded 97% III, decompose 156° (80% EtOH); HCl salt decompose 196°. IV with V and indole yielded 47% 3-indolyl(morpholino)acetic acid-0.5H2O (VI.0.5H2O), decompose 211°; VI.HCl decompose 130-40°. IV with V and Me2CO gave 74% 2-morpholino-4-oxovaleric acid. AcCH:CHCO2H and V in C6H6 kept 1 day at 0° yielded 77% 2-morpholino-3-acetylpropionic acid, decompose 136°. IV with V and AcPh yielded 29%

2-morpholino-3-benzoylpropionic acid (VII), decompose 166° (absolute EtOH); HCl salt m. 132° (EtOH-Et2O). (HO)2CHCO2H (VIII), V, and o-MeOC6H4OH in EtOH refluxed 1 hr. yielded 33% (crude) IX.0.5H2O, decompose 170° (iso-PrOH). VIII with V and 2,5-Me2C6H3OH yielded similarly 73% morpholino(2-hydroxy-3,5-dimethylphenyl)acetic acid (X), m. 149-51°, isolated as X.HCl, m. 151.5-53° (decomposition) (2N HCl). X with 2,4-Me2C6H3OH (XI) in warm H2O gave X.XI, m. 135-6° (H2O). IV treated with V and 2-C10H7OH in dioxane, and the product treated at 60° with HCl-Et2O yielded morpholino(2-hydroxy-1-naphthyl)acetic acid (XII), light brown powder, m. .apprx.124° (decomposition); HCl salt decompose 173-5° (2N HCl). VIII, V, and 2-C10H7OH in EtOH refluxed 1 hr. yielded 85-90% XII.HCl, decompose 169-70°. XII with Ac2O and NaOAc gave XIII, decompose 184° (MeOH); HCl salt m. 185-6°. 2-HOC10H6CH2CO2H heated at 160°/13 mm. yielded the lactone, m. 104°.

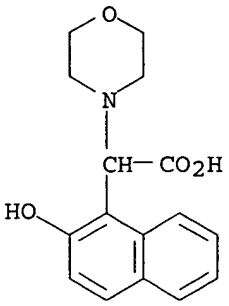
CC 38 (Heterocyclic Compounds (More Than One Hetero Atom))

IT 21813-44-5, 4-Morpholineacetic acid, α-phenacyl-, hydrochloride 21813-61-6, 4-Morpholineacetic acid, α-phenacyl- 29001-59-0, 3-Pyrazoline-4-acetic acid, α-amino-2,3-dimethyl-5-oxo-1-phenyl- 90609-33-9, 4-Morpholineacetic acid, α-acetonyl- 91240-50-5, Propionic acid, 3-[2-(dihydro-4-oxo-2-thioxo-2H-1,3-thiazin-3(4H)-yl)ethoxy]- 92256-13-8, Indole-3-acetic acid, α-morpholino- 92502-01-7, 4-Morpholineacetic acid, α-(2-hydroxy-3,5-xylyl)-, hydrochloride 92502-02-8, 4-Morpholineacetic acid, α-(2-hydroxy-3,5-xylyl)- 92965-90-7, 2-Pyrazoline, 5-(2-furyl)-4-methyl-1-phenyl-3-vinyl- 93648-89-6, 2-Pyrazoline, 4-methyl-5-(5-methyl-2-furyl)-1-phenyl-3-vinyl- 94299-12-4, 4-Morpholineacetic acid, α-(2-hydroxy-1-naphthyl)-, γ-lactone, hydrochloride 94299-12-4, Naphtho[2,1-b]furan-2(1H)-one, 1-morpholino-, hydrochloride 94299-13-5, Naphtho[2,1-b]furan-2(1H)-one, 1-morpholino- 94299-13-5, 4-Morpholineacetic acid, α-(2-hydroxy-1-naphthyl)-, γ-lactone **94460-90-9**, 4-Morpholineacetic acid, α-(2-hydroxy-1-naphthyl)-, hydrochloride **94460-91-0**, 4-Morpholineacetic acid, α-(2-hydroxy-1-naphthyl)- 94892-55-4, Indole-3-acetic acid, α-morpholino-, hydrochloride 96075-78-4, 3-Pyrazoline-4-acetic acid, α-(dibenzylamino)-2,3-dimethyl-5-oxo-1-phenyl- 96677-32-6, 3-Pyrazoline-4-acetic acid, α-(dibenzylamino)-2,3-dimethyl-5-oxo-1-phenyl-, picrate 96730-41-5, 3-Pyrazoline-4-acetic acid, α-amino-2,3-dimethyl-5-oxo-1-phenyl-, hydrochloride 100323-82-8, 4-Morpholineacetic acid, α-(2-hydroxy-3,5-xylyl)-, compound with 2,4-xylenol 100323-82-8, 2,4-Xylenol, compound with α-(2-hydroxy-3,5-xylyl)-4-morpholineacetic acid
(preparation of)

IT **94460-90-9**, 4-Morpholineacetic acid, α-(2-hydroxy-1-naphthyl)-, hydrochloride **94460-91-0**, 4-Morpholineacetic acid, α-(2-hydroxy-1-naphthyl)-
(preparation of)

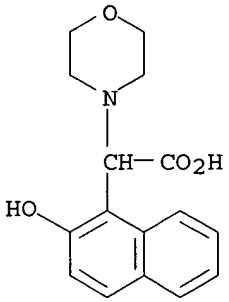
RN 94460-90-9 CAPLUS

CN 4-Morpholineacetic acid, α-(2-hydroxy-1-naphthyl)-, hydrochloride (7CI) (CA INDEX NAME)



● HCl

RN 94460-91-0 CAPLUS
CN 4-Morpholineacetic acid, α-(2-hydroxy-1-naphthyl)- (7CI) (CA INDEX NAME)



L12 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1959:7062 CAPLUS
DOCUMENT NUMBER: 53:7062
ORIGINAL REFERENCE NO.: 53:1346c-i,1347a-f
TITLE: Benzacridines. I. Syntheses and reactions of 5,6-dihydrobenz[c]acridines
AUTHOR(S): Bell, Vernon L.; Cromwell, Norman H.
CORPORATE SOURCE: Univ. of Nebraska, Lincoln
SOURCE: Journal of Organic Chemistry (1958), 23, 789-93
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 53:7062
ED Entered STN: 22 Apr 2001
AB A convenient synthesis was developed to prepare a number of substituted dihydrobenz[c]acridines and benz[c]acridines. 5,6-Dimethylbenz[c]acridine (I) was obtained through a Wagner-Meerwein rearrangement brought about by an α-elimination of HBr from 6-bromo-5,5-dimethyl-5,6-dihydrobenz[c]acridine (II). The ultraviolet absorption spectra of these new compds. are reported and compared. 4 - Methyl - 4 - phenylpentanothiomorpholide (246 g.) refluxed 48 hrs. with 1.51. concentrated HCl, cooled, extracted with 1 l. C6H6, the organic layer extracted with 25% NaOH, the

alkaline solution acidified, and the aqueous mixture extracted with C6H6 and concentrated gave 163.7 g. 4-methyl-4-phenylpentanoic acid (III), b0.8 140-1°. III (172 g.) heated to 65°, added in one lot to 500 g. polyphosphoric acid at 90°, the mixture stirred 3 min., placed on the steam bath, and 300 g. more polyphosphoric acid added, the mixture stirred 25 min. at 90°, cooled, poured into ice H2O, extracted with Et2O, washed with H2O, 5% NaOH, H2O, 3% AcOH, and H2O, and distilled gave 136.9 g. 4,4-dimethyl derivative of 1-tetralone (IV), b2 125-31°. IV (29 g.) in 170 ml. AcOH and 25 g. o-O2NC6H4CHO left 3 days at room temperature with 25 ml. 95% H2SO4 gave 48 g. 4,4-dimethyl-2-(o-nitrobenzal) derivative of 1-tetralone (V), m. 188-9° (AcOH). V (48 g.) dissolved while heating in 800 ml. AcOH and 80 ml. H2O and treated hot with 20 g. Fe powder portionwise, the solution heated 15 min. after the evolution of H ceased, poured into ice H2O, treated with 1.8 l. 33% KOH, and left overnight gave 36 g. 4,4-dimethyl-2-(o-aminobenzal) derivative of 1-tetralone (VI), m. 135-7° (alc.). Treatment of VI with picric acid gave 5,5-dimethyl-5,6-dihydrobenz[c]acridine (VII) picrate, m. 202-3°. VI in 95% alc. and 50 ml. concentrated HCl evaporated to dryness, the residue redissolved in 95% alc., treated with C, and filtered, the solution neutralized with 5% NaHCO3 and cooled, and the product collected gave 33.6 g. free VII, m. 112-13° (aqueous Me2CO); picrate, identical with the above prepared specimen. VII was also obtained by ring closure of VI by irradiation with ultraviolet light for 30 hrs. in 95% alc. IV (6 g.), 5.05 g. isatin, 6.5 g. KOH, 10 ml. MeOH, and 6.5 ml. H2O refluxed 8 hrs., the basic solution diluted with H2O, extracted with Et2O, and the alkaline solution acidified gave 6.5 g. 7-carboxy-5,5-dimethyl-5,6-dihydrobenz[c]acridine (VIII), m. 256.5-7.0° (dioxane.). VIII (7.6 g.) melted in a small flask at 260° for 2 hrs. until evolution of CO2 ceased, cooled, triturated with 10% KOH, extracted with Et2O, and evaporated gave 6.1 g. VII. VII (19.7 g.) in 250 ml. CCl4 refluxed 3 hrs. with 13.5 g. N-bromosuccinimide and 0.25 g. Bz2O2, cooled, filtered, and extracted with 200 ml. 5% NaHCO3, then with 300 ml. H2O, and the CCl4 layer evaporated gave 21 g. 6-bromo-5,5-dimethyl-5,6-dihydrobenz[c]acridine (IX), m. 145-7°. IX (0.85 g.) in 20 ml. alc. heated 1 hr. gave 0.70 g. 5,5-dimethyl-6-ethoxy-5,6-dihydrobenz[c]acridine (X), m. 96-7° (alc.); picrate, m. 197-8° (decomposition). IX (2 g.) in 25 ml. dioxane heated 1 hr. on the steam bath with 10 ml. 10% NaOH, gave 1.25 g. 5,5-dimethyl-6-hydroxy-5,6-dihydrobenz[c] acridine (XI), m. 159-60°; picrate, softened at 215° but did not melt up to 250°. IX (1 g.) in 20 ml. MeOH refluxed 3 hrs. gave 0.8 g. 5,5-dimethyl-6-methoxy-5,6-dihydrobenz[c]acridine (XII), m. 152.5-4.0° (aqueous MeOH). IX (3 g.) and 15 ml. morpholine refluxed 24 hrs., solution cooled, poured into H2O, the solid collected, and recrystd. gave 2.6 g. 5,5-dimethyl-6-morpholino-5,6-dihydrobenz[c]acridine (XIII), m. 159-61° (alc.). IX (5 g.) and 15 ml. anhydrous Me2NH heated 8 hrs. at 100° in a sealed tube gave 3 g. 5,5-dimethyl-6-dimethylamino-5,6-dihydrobenz[c]acridine (XIV), m. 93-5° (alc.). IX (2 g.) on heating melted to a light yellow liquid which turned to a bright red solid at 160°. Heating was continued 10 min. at 170°. The residue dissolved in warm, aqueous dioxane, neutralized, and cooled gave 1.1 g. I, m. 162-3° (Me2CO); picrate, m. 253-4° (decomposition). o-O2NC6H4CHO (15 g.) dissolved in 150 ml. AcOH and 30 g. 95% H2SO4 added with cooling, the mixture left 72 hrs. at room temperature with 14.6 g. α-tetralone, and the crude product collected and crystallized gave 20.9 g. 2-(o-nitrobenzal) derivative of 1-tetralone (XV), m. 121-2° (AcOH). XV (5.8 g.) in 40 ml. AcOH and 20 ml. H2O heated to 70° and treated portion-wise with 2.5 g. Fe powder, heating continued 45 min., the solution poured on ice and H2O, 150

ml. 33% KOH added, the mixture left overnight, the solid material collected, extracted with 200 ml. absolute alc., and H2O added gave 3.3 g. 2-(o-amino-benzal) derivative of 1-tetralone (XVI), m. 123-4°. XVI treated with picric acid gave the picrate of 5,6-dihydrobenz[c]acridine (XVII), m. 206°. Ring closure of XVI was effected by evaporating a HCl-containing 95% alc. solution of 3.3 g. of XVI to dryness. The HCl salt dissolved in aqueous alc., treated with C, and neutralized with 5% NaHCO3, and H2O added gave 2.6 g. free XVII, m. 65°. The over-all yield of XVII from XV was 54%. XVII was also prepared in 88% yield using the method of Braun and Wolff (C.A. 17, 1227). The crude product m. 59-60°; treatment of an alc. solution of the HCl salt with C and neutralization with Na2CO3 gave pure XVII. 7-Carboxy-5,6-dihydrobenz[c]acridine (XVIII), prepared in 83% yield by the Pfitzinger-Borsche reaction, m. 250°. o-O2NC6H4CHO (20 g.), 19.3 g. α-naphthol, and 12.7 g. morpholine in 17 ml. alc. left 24 hrs. under N and cooled gave 25 g. 2-(α-morpholino-o-nitrobenzyl)-1-naphthol (XIX), m. 128-9.5° (alc.). XVII was dehydrogenated to 60% benz[c]acridine (XX), m. 107-8°; picrate, m. 249°. XIX (5.5 g.) treated at 70° in 35 ml. AcOH and 15 ml. H2O with 1.9 g. reduced Fe powder, the mixture heated an addnl. 0.5 hr. on the steam bath, poured into 200 g. ice and H2O, treated with 100 ml. 33% KOH, and left overnight, the solid precipitate collected and extracted with 200 ml. hot alc., the alc. solution evaporated to dryness, the residue extracted with 1:1 HCl, and the acidic solution treated with C, neutralized, and recrystd. gave 10% XX, which with its picrate was identical with the above prepared specimen. The ultraviolet spectra were given for I, VI, VII, VIII, IX, X, XI, XII, XIII, XIV, XV, XVI, XVII, XVIII, and XIX. The spectra of the unsubstituted and substituted dihydrobenzacridines are quite identical, differing only slightly in both wave length and ε. The notable exception was IX, which has only a single high intensity absorption band at 220-330 mμ range and a different longer wave length fine structure than that found for other dihydrobenzacridines.

CC 10G (Organic Chemistry: Heterocyclic Compounds)

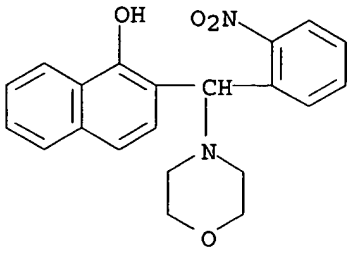
IT 83-93-2, Benz[c]acridine-7-carboxylic acid, 5,6-dihydro- 2422-78-8, Benz[c]acridine, 5,6-dimethyl- 2979-69-3, 1(2H)-Naphthalenone, 3,4-dihydro-4,4-dimethyl- 4408-55-3, Valeric acid, 4-methyl-4-phenyl- 5443-59-4, Benz[c]acridine, 5,6-dihydro-5,5-dimethyl- 5443-63-0, Benz[c]acridine-7-carboxylic acid, 5,6-dihydro-5,5-dimethyl- 5443-68-5, Benz[c]acridine, 5,6-dihydro-5,5-dimethyl-6-morpholino- **6628-55-3**, 1-Naphthol, 2-(α-morpholino-o-nitrobenzyl)- 6639-68-5, Benz[c]acridine, 6-bromo-5,6-dihydro-5,5-dimethyl- 6971-13-7, Benz[c]acridine, 6-dimethylamino-5,6-dihydro-5,5-dimethyl- 56969-63-2, 1(2H)-Naphthalenone, 3,4-dihydro-4,4-dimethyl-2-o-nitrobenzylidene- 101441-66-1, 1(2H)-Naphthalenone, 2-(o-aminobenzylidene)-3,4-dihydro- 102893-75-4, Benz[c]acridine, 5,6-dihydro-5,5-dimethyl-, picrate 102893-78-7, Benz[c]acridin-6-ol, 5,6-dihydro-5,6-dimethyl- 102893-79-8, Benz[c]acridin-6-ol, 5,6-dihydro-5,6-dimethyl-, picrate 103158-32-3, Benz[c]acridine, 6-ethoxy-5,6-dihydro-5,5-dimethyl- 103158-33-4, Benz[c]acridine, 6-ethoxy-5,6-dihydro-5,5-dimethyl-, picrate 109091-35-2, 1(2H)-Naphthalenone, 3,4-dihydro-2-o-nitrobenzylidene- 109556-40-3, 1(2H)-Naphthalenone, 2-(o-aminobenzylidene)-3,4-dihydro-4,4-dimethyl- 110149-06-9, Benz[c]acridine, 5,6-dihydro-6-methoxy-5,5-dimethyl- 114999-65-4, Benz[c]acridine, 5,6-dimethyl-, picrate
(preparation of)

IT **6628-55-3**, 1-Naphthol, 2-(α-morpholino-o-nitrobenzyl)-
(preparation of)

RN 6628-55-3 CAPLUS

CN 1-Naphthalenol, 2-[4-morpholinyl(2-nitrophenyl)methyl]- (9CI) (CA INDEX

NAME)



L12 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1957:34766 CAPLUS
DOCUMENT NUMBER: 51:34766
ORIGINAL REFERENCE NO.: 51:6575d-i,6576a-d
TITLE: The chemistry of derivatives of 2-benzaltetralone. I. A novel rearrangement leading to 2-substituted-1-naphthols
AUTHOR(S): Hassner, Alfred; Cromwell, Norman H.; Davis, Stanley J.
CORPORATE SOURCE: Univ. of Nebraska, Lincoln
SOURCE: Journal of the American Chemical Society (1957), 79, 230-4
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
ED Entered STN: 22 Apr 2001
AB 1-Tetralone treated with BzH and 4% alc. KOH yielded 88% 2-benzaltetralone (I), m. 107°; the Ph and C:O groups are in trans position. I treated with alkali and 30% H2O2 in MeOH yielded 93% I oxide, m. 77-7.5° (from MeOH). I (1 g.) in 20 g. 28% HBr in glacial AcOH and 8 cc. Ac2O kept 17 hrs. at room temperature gave 85% recovered I. I (1 g.) in 26 g. glacial AcOH, 16 cc. Ac2O, and 1.7 g. H2SO4 kept 17 hrs. at room temperature gave also 85% recovered I. I (1 g.) in 15 cc. Ac2O containing 12 drops concentrated H2SO4 kept 6 days at room temperature gave 65% recovered I and a small amount of unidentified, red, gummy material. I (1 g.) in 12 cc. 10% NaOMe in MeOH refluxed 5 hrs. gave 85% recovered I. I heated 10-45 min. (or kept 1 day) with morpholine or piperidine gave 80-90% recovered I. Br (4.2 cc.) in 10 cc. CCl4 added with stirring to 18.4 g. I in 150 cc. CCl4 during 1 hr. gave 77% 2-bromo-2-(α-bromobenzyl)-1-tetralone (II), m. 153-4° (decomposition) (from ligroine, b. 90-100°); the residue from the filtrate gave in 1 case a small amount of solid, m. 109-9.5°, which converted to II on standing, in another case a different form of II, m. 118-19°. II (2 g.) and 10 equivs. of the appropriate liquid amine kept 8-24 hrs. under N at room temperature, the mixture diluted with iso-Pr2O and filtered, the filtrate washed with dilute HCl and H2O and evaporated, and the liquid residue poured into cold H2O gave the corresponding 2-[α-(N-substituted-amino)benzyl]-1-naphthol (III), which was recrystd. from EtOH or ligroine (b. 60-70°) (m.p., % yield, and reaction time given): N-cyclohexyl derivative (IV), 98-100° (from ligroine, b. 60-80°), 80 (it gave tars when heated in EtOH in air), 8 hrs.; N-Me derivative (V) of IV, 140-1° (from ligroine), 91, 6 days; 2-(α-piperidinobenzyl)-1-naphthol (VI), 108-9°, 100, 8

hrs.; 2-(α-morpholinobenzyl)-1-naphthol (VII), 139° (from EtOH and ligroine), 100, 20 hrs. (HCl salt, m. 158-9°). II (1 g.) kept 1 hr. at 25° with a 10-fold excess of piperidine and filtered gave 100% piperidine-HBr; cyclohexylamine gave similarly 95% amine salt, while N-methylcyclohexylamine gave only 10% salt. II and PhNH2 heated 20 min. to 50° and then allowed to stand 2.5 days gave only 4% PhNH2.HBr. 1-C10H7OH (0.02 mole) in 2/3 its weight of absolute EtOH treated with 1 equivalent each of BzH and the appropriate amine and the mixture kept 1-4 days in the dark under N and seeded gave the corresponding III (m.p., % yield, and reaction time given): IV, 99-100°, 38, 1 day; V, 139.5-41°, 36, 6 hrs.; VI, 109-10°, 50, 4 days; VI, 101-3°, 50, 15 min. (at 100° and then allowed to stand 2 hrs.); VII, 131-3°, 75, 20 hrs. (at room temperature and 1.5 days in the cold); 2-[α-(N-phenylamino)benzyl]-1-naphthol, 138.5-9.5° (from EtOH or C6H6-ligroine), 85, 1 day. II (2 g.) and 7 g. 1-methylmorpholine allowed to stand 2 days gave 70% recovered II; a similar run in hot C6H6 gave 30-50% of the amine salt, but no definite product. II refluxed with collidine gave only tars. II allowed to stand with Et3N was recovered unchanged. II treated 3.5 days with 4-picoline at room temperature gave 15% I and largely low-melting polymeric material. II refluxed 6 hrs. with 1 equivalent KOAc in EtOH gave 67% unchanged II. II (1 g.) refluxed 4 hrs. in C6H6 or Me2CO with 3 equivs. cyclohexylamine gave 30-50% crude I. I (4 g.) in 150 cc. absolute EtOH hydrogenated 20 min. at 55° and 44 lb. pressure over 0.25 g. PtO2 gave 3.6 g. 2-benzyl-1-tetralone (VIII), colorless solid, m. 53-4° (from petr. ether). Br (4.2 g.) in 5 cc. CHCl3 added slowly to 6.2 g. VIII in 20 cc. CHCl3 (initially at room temperature, then with cooling) and the solution evaporated after 3 hrs. yielded 92% 2-Br derivative (IX) of VIII, white solid, m. 82-2.5°. IX (1 g.) allowed to stand 10 min. with 3 equivs. morpholine, heated 2 min. on the steam bath, diluted with iso-Pr2O, and filtered yielded 96% amine-HBr; the filtrate yielded 60% 2-PhCH2C10H6OH (X), m. 73-4° (from ligroine). 1-C10H7OH in PhMe treated with Na and PhCH2Cl gave X, white crystals, m. 74-4.5° (from ligroine); it produced gradually a red coloration with the formation of a golden glimmering precipitate when treated with aqueous FeCl3 in EtOH. A similar run with N-methylmorpholine gave only 10% HBr salt; 80% X was recovered unchanged.

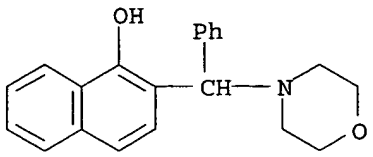
CC 10 (Organic Chemistry)

IT 13148-18-0, Spiro[naphthalene-2(1H),2'-oxiran]-1-one, 3,4-dihydro-3'-phenyl- 27019-08-5, 1(2H)-Naphthalenone, 2-benzyl-3,4-dihydro- 36441-32-4, 1-Naphthol, 2-benzyl- 78364-65-5, 1(2H)-Naphthalenone, 2-bromo-2-α-bromobenzyl-3,4-dihydro- 93322-94-2, 1(2H)-Naphthalenone, 2-benzyl-2-bromo-3,4-dihydro- **102474-88-4**, 1-Naphthol, 2-α-morpholinobenzyl-, hydrochloride **102474-89-5**, 1-Naphthol, 2-α-morpholinobenzyl- 102559-06-8, 1-Naphthol, 2-(α-cyclohexylaminobenzyl)- 102594-14-9, 1-Naphthol, 2-(α-anilinobenzyl)- 102756-54-7, 1-Naphthol, 2-α-piperidinobenzyl- 113751-75-0, 1-Naphthol, 2-[α-(cyclohexylmethylamino)benzyl]-
(preparation of)

IT **102474-88-4**, 1-Naphthol, 2-α-morpholinobenzyl-, hydrochloride **102474-89-5**, 1-Naphthol, 2-α-morpholinobenzyl-
(preparation of)

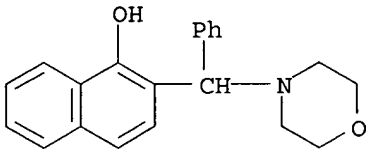
RN 102474-88-4 CAPLUS

CN 1-Naphthol, 2-α-morpholinobenzyl-, hydrochloride (6CI) (CA INDEX NAME)



● HCl

RN 102474-89-5 CAPLUS
CN 1-Naphthol, 2-α-morpholinobenzyl- (6CI) (CA INDEX NAME)



L12 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1949:10873 CAPLUS
DOCUMENT NUMBER: 43:10873
ORIGINAL REFERENCE NO.: 43:2183i,2184a-d
TITLE: Synthesis of substituted dinitrophenyl ketones and phenylacetic acids. III
AUTHOR(S): Sen, A. B.; Bhargava, P. M.
SOURCE: J. Indian Chem. Soc. (1948), 25, 282-4
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
ED Entered STN: 22 Apr 2001
AB cf. C.A. 42, 5438c. To 36.8 g. 2,4-dinitrophenol in hot AcOH is added during 6 h. a powdered mixture of 40.8 g. iodine and 21.7 g. HgO, the whole stirred 1 h. longer, the liquid decanted, and water added, precipitating 87.1% 2,4-dinitro-6-iodophenol (I), m. 102° (from alc.). 1-Chloro-2,4-dinitro-6-iodobenzene (II) is prepared from I by the method of Sane and Joshi (C.A. 26, 4037). To the Na derivative from 20.8 g. AcCH2CO2Et and 3.7 g. Na in 40 cc. cold ether is added 26.4 g. II, the mixture refluxed 6 h., left overnight, extracted with about 300 cc. H2O and then with an equal amount of 2% NaOH, and the Et α-(2,4-dinitro-6-iodophenyl)acetoacetate (III) liberated by acidification with dilute HNO3 and crystallized from cold alc.; yield, 57.4%, m. 74°, dark reddish brown. To 5.8 g. crude III in 51 cc. concentrated H2SO4 is added 24 cc. water; after CO2 stops coming off, the solution is poured onto ice, let stand in the refrigerator 2 days and filtered, giving 83.1% (2,4-dinitro-6-iodophenyl)acetone, dark needles, m. 110° (from EtOH); phenylhydrazone, red flakes, m. 74° (decomposition); oxime, fine needles, m. 75°. Crude III (3 g.), 15 cc. 20% alc. KOH, and 1 cc. H2O are refluxed 0.5 h., the EtOH distilled off, and the residue acidified with dilute HCl; (2,4-dinitro-6-iodophenyl)acetic acid crystallizes slowly as a brown powder (yield, 2 g.), gives off iodine on heating, does not melt; N found 7.58, calculated 7.95%. Crude III (2 g.), 3 g. Fe powder, 0.3 g. FeSO4, and 10 cc. H2O are refluxed 3 h., then cooled in ice, and the residue filtered, extracted with

alc., and evaporated to give 73.6% 2-methyl-3-carbethoxy-4-iodo-6-aminoindole, a colorless solid which turns black on exposure to air, m. 135° (decomposition).

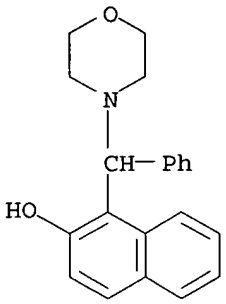
CC 10 (Organic Chemistry)

IT 5342-95-0, 2-Naphthol, 1-piperidinomethyl- 6278-04-2, 2-Naphthol, 1-α-piperidinobenzyl- 15968-55-5, Phenol, 2-iodo-4,6-dinitro- **24685-08-3**, 2-Naphthol, 1-α-morpholinobenzyl- 54437-68-2, Benzene, 2-chloro-1-iodo-3,5-dinitro- 412027-23-7, Acetic acid, (2-chloro-4,6-dinitrophenyl)- 412027-75-9, Acetoacetic acid, 2-(2-chloro-4,6-dinitrophenyl)-, ethyl ester 714252-15-0, Acetic acid, (2-iodo-4,6-dinitrophenyl)- 857559-69-4, Acetoacetic acid, 2-(2-iodo-4,6-dinitrophenyl)-, ethyl ester 857764-00-2, 3-Indolecarboxylic acid, 6-amino-4-iodo-2-methyl-, ethyl ester (preparation of)

IT **24685-08-3**, 2-Naphthol, 1-α-morpholinobenzyl- (preparation of)

RN 24685-08-3 CAPLUS

CN 2-Naphthalenol, 1-(4-morpholinylphenylmethyl)- (9CI) (CA INDEX NAME)



L12 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1949:10872 CAPLUS

DOCUMENT NUMBER: 43:10872

ORIGINAL REFERENCE NO.: 43:2183g-i

TITLE: Amine exchange reactions of Mannich bases

AUTHOR(S): Snyder, H. R.; Brewster, James H.

SOURCE: Journal of the American Chemical Society (1948), 70, 4230-2
CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

OTHER SOURCE(S): CASREACT 43:10872

ED Entered STN: 22 Apr 2001

AB PhCOCH2CH2NMe2 (I) (n20D 1.5299, d204 1.017) (0.001 mol) and 0.05 mol morpholine (II), refluxed 2 h. in a N atmospheric, give 78% β-4-morpholinylpropiophenone-HCl (III); the HCl salt of I likewise gives 78% of III and I. MeI yields 81%; these derivs. reacted only a little more rapidly with II than did I. The free base from III has n20D 1.5433, d204 1.103. 1,2-Me2NCH2C10H6OH and excess II give 83.5% of the 1-(4-morpholinylmethyl) compound (IV) and excess piperidine (V) gives 92% of the 1-piperidylmethyl compound (VI); IV and V give 50% VI, and VI and II give a small yield of IV. 1,2-PhCH(NH2)C10H6OH likewise yields 87.5% of the 1-(α-4-morpholinylbenzyl) compound, m. 176.5-7°, and both compds. react with V to give the 1-(α-1-piperidylbenzyl) compound

CC 10 (Organic Chemistry)

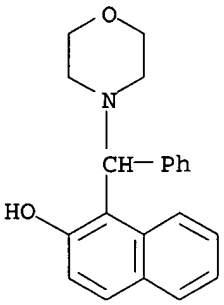
IT 1020-16-2, Propiophenone, 3-morpholino-, hydrochloride 2298-48-8,

Propiophenone, 3-morpholino- 5342-95-0, 2-Naphthol, 1-piperidinomethyl- 6278-04-2, 2-Naphthol, 1-α-piperidinobenzyl- 6278-04-2, Piperidine, 1-[α-(2-hydroxy-1-naphthyl)benzyl]- **24685-08-3**, Morpholine, 4-[α-(2-hydroxy-1-naphthyl)benzyl]- **24685-08-3**, 2-Naphthol, 1-α-morpholinobenzyl- 27438-39-7, 2-Naphthol, 1-morpholinomethyl- 27438-39-7, Morpholine, 4-[(2-hydroxy-1-naphthyl)methyl]-
(preparation of)

IT **24685-08-3**, Morpholine, 4-[α-(2-hydroxy-1-naphthyl)benzyl]-
(preparation of)

RN 24685-08-3 CAPLUS

CN 2-Naphthalenol, 1-(4-morpholinylphenylmethyl)- (9CI) (CA INDEX NAME)



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